Supplementary Table 2 - Part 1 - Tech Mixes 3 min method

CV color code

<5%	16%	≥ 20%

	Tech Mixes										
	Tech Mix 1	Tech Mix 2	Tech Mix 3	Tech Mix 4	Tech Mix 5	Tech Mix 6	Tech Mix 7	Tech Mix 8	Tech Mix 9	Tech Mix 10	CV quantiation
Alanine	19823000	19549420	20300810	19753080	17783710	15900490	17106370	19996110	16297640	16799720	9.20%
Arginine	1890132	1844634	1911983	1678578	1788005	1719426	1684063	1762227	1597675	1636920	6.14%
Asparagine	1226639	1190247	1272346	1197186	1232584	1209208	928597.7	1172644	1157091	1190194	7.83%
Aspartate	4673144	4439319	4260174	4413225	3988912	3499316	3630575	3806914	3623563	3536460	11.03%
Cysteine	441968	437735.8	320530.7	365642.2	379797.5	383379.4	334010.8	362673.3	393643.3	306964.9	12.11%
Glutamate	12534810	12030380	11485640	12361270	11358340	10591590	10356710	10699960	10411490	10150490	7.99%
Glutamine	16133180	18829610	17328050	16615210	16761590	15905680	12391230	15417950	15050710	14588440	10.80%
Glycine	23207920	21159060	19884640	18915530	26385780	25361270	24757410	23786960	23250450	22598280	10.22%
Histidine	4214554	4693970	4484494	4324786	4047782	3764251	3745851	3580645	4295124	3557634	9.54%
Isoleucine	10490090	10647940	10775660	11227180	11310150	11222940	11220040	11035660	11113640	11816730	3.39%
Leucine	98000620	99969980	105072500	98629920	96998980	93202390	95678950	86244820	89185440	85970410	6.45%
Lysine	7529546	7893562	7426024	6938518	7511948	7566504	5883858	6848210	6787822	5543444	10.67%
Methionine	11420030	12187430	12662290	11768290	11819940	11101020	11557410	10134820	10571920	10020690	7.55%
Phenylalanine	14586420	14696230	16854960	14730160	16586400	16365830	14466430	15355830	13429140	12692300	9.16%
Proline	93870820	95310260	86530600	85048000	87830820	81616070	86822270	82920340	83265280	79059320	5.99%
Serine	1369520	1209952	1245313	1209061	1280354	1259703	1047480	1172172	1190177	1128581	7.24%
Threonine	4765798	5084500	4829150	4752974	4796900	4550048	3741161	4472280	4513146	4368508	7.83%
Tryptophan	4508632	4563058	4727635	3494704	4229714	4497828	3629546	4620714	4350950	4995282	10.44%
Tyrosine	27065260	28697020	30863430	28824080	27169860	26170470	26890400	24636920	25217820	23975870	7.79%
Valine	163358000	170082800	166850000	158806600	172189700	165954200	162195200	168710500	157818100	150285900	4.02%
Hypoxanthine	9423418	9630433	10040740	9826187	9669788	9739228	9925192	9042049	9736605	8970325	3.66%
Adenine	4206931	5171414	4390671	4583442	4084878	4208674	4551977	4536511	4641490	4274424	6.99%
Nicotinamide	36350080	38466070	34806080	32715170	35633730	37378350	36348410	33067200	33591760	32921120	5.75%
Adenosine	614896.9	546715.8	581181.5	564588	548105	559112	586386	518313	514349	542257	5.58%
Orthophosphate	3336321	3362987	3585565	3568828	3690411	3666504	3744256	3931237	4011897	4492072	9.25%
Diphosphate	47247.23	43507.14	38971.5	52480.41	64003.62	51023.02	51349.13	49035.53	48667.8	42912.4	13.95%
D-Glucose	4466316	3890375	4000985	3576913	3521361	3279279	3589375	3528437	3498880	3681632	9.40%
D-Glucose 6-phosphate	251401	239967.5	279871.8	274060	300767.4	280507.4	306141.2	315399	291008.2	368023	12.53%
D-Fructose 1-6-bisphosphate	542079.5	599274.2	467511.1	425698.3	453780	451990.8	415513.8	463121.2	567641.2	523347.6	13.49%
D-Glyceraldehyde 3-phosphate	226461.8	211310.6	229797.9	204948.5	244091.1	215966.6	235805.2	206964	258875.8	271539.8	9.81%
2-3-Bisphosphoglycerate	86698.9	82588.76	63474.96	109340	85508.91	87236.93	91416.34	66714.09	99398.89	89083.88	15.60%
2/3-Phospho-D-glycerate	1647635	1852843	1901056	2173993	2078016	2232515	2511264	2478458	2719111	2146920	15.21%
Phosphoenolpyruvate	789773.2	777982.5	757902	720277.3	691474.5	723481.2	721664	735336.5	775139.2	674014.6	5.23%
Pyruvate	2595486	2778765	2653935	2581715	2491563	2691801	2508577	2459278	2523912	2438673	4.29%
Lactate	33936240	37051650	40194010	39411130	40853350	41781160	37132110	36425470	38646740	37651300	6.15%
Citrate	27279270	23925750	23125290	22243370	20382420	19842640	21890390	18459400	20418540	20283320	11.97%
alpha-Ketoglutarate	244927.5	203503.2	222685.3	197267.1	206561.2	168814.2	193600.1	183446.1	165746.3	159192.5	13.67%
Fumarate	1027164	1014676	1029035	986911.8	942048.7	917097.8	977066.5	921815.7	1004787	947665.3	4.32%
Malate	14914700	14902290	14682210	14413420	13755920	13233360	14628660	12621360	13638610	13743760	5.50%
Sedoheptulose 1-phosphate	9204.649	7259.828	6340.283	8818.331	8755.61	7689.714	6013.762	5749.645	7419.848	7304.34	16.30%
alpha-D-Ribose 1-phosphate	247653	278069.9	255583.3	258290.5	244583.3	235872	291714	272436.6	297412.2	311700.7	9.47%
Glutathione	398083000	408839100	461201300	419797300	398256300	390376800	398598300	386737400	375088900	340075000	7.79%
Glutathione disulfide	13525720	14064530	15772250	14349840	13401560	14211000	14399320	13275980	13838900	11897680	7.11%
5-Oxoproline	14342500	16364560	15291240	14720730	14984180	14568960	11290380	14345530	13906500	13885820	9.02%
S-Glutathionyl-L-cysteine	367144.6	326432.2	401833.1	410403.8	331011.5	383156.7	310447.3	258221.1	333834.8	267906.1	15.67%
Urate	19756990	20739710	22170680	20123510	21924770	20293090	18618090	20634660	20445130	20438080	4.94%

Supplementary Table 2 - Part 2 - RBC storage metabolomics with 3 Min Isocratic method

	Day 2_A	Day 2_B	Day 2_C	Day 2_D	Day 7_A	Day 7_B	Day 7_C	Day 7_D	Day 14_A	Day 14_B	Day 14_C	Day 14_D	Day 21_A	Day 21_B	Day 21_C	Day 21_D	Day 28_A	Day 28_B	Day 28_C	Day 28_D	Day 35_A	Day 35_B	Day 35_C	Day 35_D	Day 42_A	Day 42_B	Day 42_C	Day 42_D
	Day 2	Day 2	Day 2	Day 2	Day 7	Day 7	Day 7	Day 7	Day 14	Day 14	Day 14	Day 14	Day 21	Day 21	Day 21	Day 21	Day 28	Day 28	Day 28	Day 28	Day 35	Day 35	Day 35	Day 35	Day 42	Day 42	Day 42	Day 42
Alanine	21269890	19260360	16503380	15591780	21683930	18084210	13958830	23264280	21791250	19847710	17928570	19206060	19285180	17609060	16984990	17079920	22604520	19298150	17940220	14125390	22900420	19336660	17275980	18131930	21946680	19397450	19078390	16012040
Arginine	156920.5	171764.2	179863	823300.2	67585.94	125901.3	105895.6	412841.8	47764.26	143493.9	190366.9	334537.2	74696.42	100474.9	114709.9	311801.7	237201.4	353006.7	249295.2	433598.5	145963.1	171450.7	331914.5	329195.6	130831.4	209240.7	224502.4	316937.1
Asparagine	1730335	1412566	988957	1773910	1239065	1565838	980217.2	1290393	1510591	1295756	939441.2	1347606	1125130	1194058	983508.7	1490196	1099613	774389.5	921125.5	1199310	1087404	976377.8	780735.9	1373350	941919.6	882840.4	642027.2	1191127
Aspartate	5874860	3569521	4053382	5296190	5344502	5579018	3512031	4381186	6422124	4593148	3163599	4945886	5948526	4709350	2630878	5036142	6108760	3523382	3446133	3817295	3931375	4345292	2339415	3859319	4575896	3314959	2369913	3132385
Cysteine	7080.625	0	8465.126	0	15482.02	8805.826	54072.94	63714.31	155781.4	36819.95	157990	79597.5	261659.8	246686.3	298968.5	145281.4	389860.5	191452.4	281085.4	173461.2	346761.9	184941.5	147915	341529.8	164376.1	91131.87	392398.2	357141
Glutamate	13737490	14870490	10107820	12573620	12137060	9017303	10089390	13286640	10859810	9349183	8192146	11534240	10749030	7515800	13941810	12832590	7889688	6337622	7883458	9806114	9209053	6936866	8096012	11461620	7962924	7057362	9921416	11040210
Glutamine	15631210	16511980	13130850	16305520	11677800	14298220	9821301	10706950	10223590	10400030	7563522	12116240	6592818	9167829	5067091	11493300	6404128	5341637	5984620	8280674	3903183	5942936	4055985	8178022	3101497	4298127	3293900	6564022
Glycine	15712510	19059280	19366760	21708150	15997370	18792790	16372920	16695520	16670560	25180950	18942050	14869580	20224850	19624550	20143060	20599990	18332850	10705640	19068190	16134280	12877700	19472520	15879010	26136160	17075780	15650560	18751480	18693840
Histidine	3045265	3364885	3099490	3705063	3064009	3271039	2937117	4029647	3125038	3499479	3238549	3354732	2939779	3163795	2751756	3663589	3198099	2850486	2863067	3255851	3107491	3258123	2606367	3572091	3139897	3688669	3090557	3745368
Isoleucine	2200668	2956481	2471601	3706801	2682742	2934369	2579253	5059322	4091749	4548546	3532794	3812534	2293864	4324816	2431741	7632760	4557586	3221205	3246729	3535369	2881301	3152023	2605061	4503300	2912598	2831217	2660141	8165480
Leucine	48797710	75576310	45793550	1.19E+08	67522930	70912410	37705460	92278620	70540200	81186070	50844720	1.05E+08	61000380	74376550	49021120	1.13E+08	71862310	84500740	55830680	1.19E+08	77732090	76124880	56655850	1.37E+08	81054170	77577610	57243280	1.31E+08
Lysine	7130548	7392140	8459377	6326138	6481150	7327292	6914124	8488303	8141720	7068866	7304142	5870978	7764924	7842762	7741062	6663598	7000890	6950026	7994288	6015236	7743570	7804462	6854932	6479388	7248490	7999034	6997650	7370540
Methionine	2794531	6140162	2649286	14005300	3427296	4327214	1276116	9652161	1768685	3360029	883605.9	10480880	456974	1695789	441596.5	10662390	596813.8	948464.3	778282.7	8825099	401655.6	632451.4	889429.7	10260960	292016	624201.8	604053.6	9138079
Phenylalanine	10116280	12653740	8239332	18115470	12241800	13443780	9647350	12163790	13762700	17067560	10847530	15170280	12650220	15361690	10740130	15785500	15317850	16324800	13511470	19538170	15701130	16821470	12097770	20725910	16257150	14712240	12906310	18123610
Proline	48722400	1.14E+08	65833780	1.19E+08	62343860	1.09E+08	53476380	1E+08	67169540	1.14E+08	64752010	99562220	59124460	1.04E+08	64991430	1.14E+08	71616260	1.12E+08	67844200	95965410	71200940	1.08E+08	67169930	1.19E+08	79847380	1.19E+08	72859220	1.24E+08
Serine	1332041	1204064	1071884	1451067	1072353	1086793	1133866	1432298	1285263	1290098	1172859	1510850	1138408	1165937	1332526	1613588	1362117	979640.5	1226187	1548306	1105039	1243310	1143200	1826108	1115210	1032200	1323140	1382914
Threonine	4276104	4452882	3281286	6106060	4333942	4022173	3013957	5352299	4719590	4072970	3121621	6380630	4147391	4054840	3771767	6923262	4861474	3988958	3781402	6067474	3950159	4255356	3553170	6727156	3843326	4149875	3844563	6792254
Tryptophan	5503756	5280578	5006322	9181779	4828526	9112507	5756374	3142692	7800636	6297714	4917220	7992624	5384044	5821986	6063306	6031858	10842850	8027218	6847440	7772582	6469334	9428988	7192914	6435646	7213034	8612836	6561714	6289804
Tyrosine	23590100	24361520	19136590	51261120	35580600	24235920	16399440	44350100	37900140	30110500	21800770	48704800	32066010	26724120	21390360	51663170	37986840	30302340	23864620	48010840	40212320	26851390	23303450	63410940	40918150	25926730	23579750	57942610
Valine	99103900	1.59E+08	1.24E+08	1.52E+08	1.09E+08	1.34E+08	1.6E+08	1.39E+08	1.13E+08	1.17E+08	1.49E+08	1.03E+08	84965500	1.18E+08	1.54E+08	1.3E+08	91328300	1.13E+08	1.36E+08	1.33E+08	96610910	89543300	1.24E+08	1.37E+08	1.13E+08	1.09E+08	1.44E+08	1.49E+08
Hypoxanthine	14633000	8308469	8303239	7951724	10577700	7484892	17911890	9358367	99203280	90743740	1.95E+08	1.16E+08	2.5E+08	2.76E+08	4.62E+08	3.98E+08	6.21E+08	5.97E+08	7.97E+08	5.94E+08	8.91E+08	8.12E+08	9.52E+08	9.46E+08	1.25E+09	1E+09	1.28E+09	1.15E+09
Adenine	1.86E+09	3.04E+09	2.9E+09	3.69E+09	7.62E+08	1.46E+09	1.57E+09	2.11E+09	19728210	6.28E+08	1.02E+09	1.28E+09	20941910	3.51E+08	7.66E+08	1.09E+09	23079260	1.53E+08	7.4E+08	9.18E+08	22498910	16999350	4.74E+08	8.26E+08	21906200	18215890	3.74E+08	5.88E+08
Nicotinamide	2.2E+08	1.63E+08	1.91E+08	2.31E+08	3E+08	1.53E+08	3.57E+08	3.69E+08	3.11E+08	3.31E+08	1.59E+08	2.49E+08	1.34E+08	1.55E+08	3.43E+08	2.85E+08	1.33E+08	1.64E+08	1.46E+08	1.36E+08	1.52E+08	1.66E+08	3.47E+08	1.54E+08	3.56E+08	1.65E+08	3.82E+08	1.58E+08
Adenosine	8677.317	22404.7	29266.9	11355.73	12790.91	8260.019	15796.23	12945.11	8958.331	23146.15	15732.8	17333.33	3146.203	21456.98	6193.809	6675.792	7765.396	18963.45	9176.808	15407.15	5560.041	5939.373	5023.884	6850.723	2474.784	9124.774	6770.489	8836.411
Orthophosphate	43865200	41463180	36306000	43877260	51752580	44527480	48069100	49265940	51414980	46373620	44253760	55790000	43482680	45929950	43635770	50256940	43343870	46640580	39136390	48389090	52737940	39219310	45687120	44925790	47707760	46429540	44042440	49742660
Diphosphate	10740060	9009591	7406006	10401230	12806960	11039980	11797420	11217050	11905830	10129100	10297890	15161140	9061199	9572756	9384844	12704910	9350584	10116590	7716960	11630280	11900720	7207768	9738683	10601480	9758939	9134283	8983761	11233780
D-Glucose	27145450	40653260	39960090	60061280	45941920	34099000	35018310	42057720	33445660	46156780	39235290	33562750	33196460	35892130	25498760	27889390	33954100	29210890	23992290	34451910	28788630	27609820	30482950	41887080	28973700	24468070	21070470	26998940
D-Glucose 6-phosphate	23005240	8004432	4971122	14426650	17112600	11263870	6444813	9447765	19615080	8102695	12748010	18699880	7304505	14122550	6245763	13269560	16701090	15351310	11538320	14794550	14655720	9687679	11805310	11381240	15962640	16215380	11089620	13061070
D-Fructose 1-6-bisphosphate	39329.09	1928630	750519.2	4398622	1028375	433990.8	342143.2	643753.4	445593.6	520345.1	296755.9	178679.8	685507.1	246836.7	597355.8	316866	37795.58	131478.5	243133.4	241405.9	328954.7	65989.56	215036.8	236907.4	217554.1	0	251379.6	139411.7
D-Glyceraldehyde 3-phosphate	0	1474530	380051.8	616466.8	0	404404.6	228139	459067.9	0	1488596	603775.9	0	902160.4	0	842926.7	575777.3	0	171873.2	0	0	2836547	200984.9	0	783462.1	1522034	419584	0	0
2-3-Bisphosphoglycerate	26851.04	99859.88	29759.99	189077.5	42283.28	22898.69	10112.55	48219.02	9637.559	53312.3	28972.21	3145.02	18048.09	22979.97	54567.24	9718.231	72981.07	9040.057	10715.93	10137.44	15535.9	5658.847	16426.53	2299.208	29398.93	11759.05	36849.62	6131.541
2/3-Phospho-D-glycerate	5737770	12148720	5431881	17512570	6739456	5033200	4402766	18856320	1861555	3116606	921382.1	3019142	2786176	1924883	3646509	2259821	1082397	1804328	1097143	1669792	1515651	1704311	1153939	2212695	1731320	1488460	1948834	2050187
Phosphoenolpyruvate	14348.95	1599572	262610.8	3305261	602096.8	256156.6	116891.4	773349.1	62782.12	144918.3	15282.7	64071.13	171014.5	150894.7	808295	196261.6	304562.9	180519	45736.44	3218.467	162590.8	75627.41	49149.25	94823.52	124871.9	104732	108246.9	8043.309
Pyruvate	97634530	1.07E+08	1.14E+08	1.2E+08	69748140	1E+08	51149210	1.53E+08	24629720	47917840	18444030	30900760	15235040	25682400	16542030	33618480	20351780	21494540	16996640	20648970	26326700	36877810	21667710	44508500	28962140	29418680	27178390	40618340
Lactate	1.16E+08	2.06E+08	97301310	1.5E+08	2.29E+08	3E+08	2.13E+08	3.27E+08	3.4E+08	5.7E+08	3.93E+08	3E+08	4.23E+08	5.54E+08	4.56E+08	4.52E+08	5.4E+08	5.33E+08	4.25E+08	4.29E+08	5.48E+08	6.58E+08	4.84E+08	7.17E+08	6.21E+08	5.39E+08	5E+08	7.36E+08
Citrate	6.07E+08	8.87E+08	5.84E+08	1.23E+09	7.88E+08	6.53E+08	6.69E+08	1.04E+09	5.48E+08	6.44E+08	7.13E+08	6.98E+08	5.2E+08	5.42E+08	6.23E+08	5.96E+08	4.18E+08	6.08E+08	4.6E+08	4.96E+08	7.49E+08	2.61E+08	6.77E+08	7.78E+08	5.64E+08	3.65E+08	6.2E+08	6.42E+08
alpha-Ketoglutarate	707394.9	524115.3	757132.4	1019985	697828.4	660181.8	546720.8	663832.4	438397.1	520330.7	599922.7	723693.7	416804.2	415731.8	526673.1	373037.1	323114	508592	427914.6	366398.2	629613.1	208426.1	519171.1	507188.2	392715.9	383652.8	425126.1	417413.8
Fumarate	424385.8	1176455	348503.8	842684.8	591785.5	695445	854712	1835536	385574.2	1238934	496166.2	551257	1129293	1423631	1889158	1350123	805880	725466.9	803744.2	825106	1105421	962508.4	761094.8	1520862	842646	617213.4	915020.2	1487891
Malate	1606018	1549217	1750103	872864.5	3793158	3611998	2716254	3506738	4659475	5072248	4144172	4165299	4860857	5988432	5293736	4599917	6316795	6802582	6228847	5070923	7757135	7526734	6575491	6853257	8765781	8818185	7571416	7188887
Sedoheptulose 1-phosphate	7732740	0	91190.34	10371820	3165507	1626283	1648805	1349497	4870897	0	5001157	10723690	792462.4	3336462	0	8012607	8338735	3900967	6388740	7870183	4131575	2288672	6231580	6190004	4749738	8154181	5183941	6735084
alpha-D-Ribose 1-phosphate	2150360	2904648	3005900	2426828	2574051	2476769	2510900	3489472	2232982	2509888	2196679	2329300	1657018	2159072	1962845	2301078	1965588	1776475	2047618	2332835	1584987	1837791	1939118	2026831	1502680	1431038	1719098	2050048
Glutathione	6.07E+08	2.93E+08	2.05E+08	6E+08	5.57E+08	2.9E+08	1.85E+08	6.73E+08	5E+08	2.63E+08	2.08E+08	2.78E+08	5.16E+08	2.84E+08	2.06E+08	2.47E+08	3.99E+08	2.74E+08	1.95E+08	2.15E+08	4.11E+08	2.11E+08	1.23E+08	2.43E+08	3.54E+08	2.23E+08	1.8E+08	2.25E+08
Glutathione disulfide	1.3E+08	2.67E+08	2.51E+08	2.07E+08	2.29E+08	1.86E+08	1.88E+08	2.49E+08	1.6E+08	1.53E+08	1.13E+08	1.48E+08	91610660	1.2E+08	1.29E+08	1.12E+08	73533480	96881280	73469250	82849820	94562260	42723920	78910500	1.24E+08	63594480	51847560	62291430	88756680
5-Oxoproline	1.02E+08	1.32E+08	1.15E+08	1.13E+08	1.48E+08	1.47E+08	1.39E+08	1.54E+08	2.01E+08	2.07E+08	1.94E+08	1.69E+08	2.14E+08	2.4E+08	2.48E+08	2.25E+08	2.84E+08	3.11E+08	2.99E+08	2.5E+08	3.41E+08	3.03E+08	3.07E+08	3.13E+08	3.89E+08	3.43E+08	3.47E+08	3.54E+08
S-Glutathionyl-L-cysteine	682617.4	1509237	1211402	1135322	1692172	2246708	1987873	1388673	3001934	5005433	4784054	2929061	4157585	5132493	7517402	4692840	4114906	5546213	5081274	5029372	5413796	2592012	9406557	5664382	4133791	3235918	5424630	5351710
Urate	36585920	47216240	47138560	25992100	47748070	38451870	44776350	45718910	50138250	43819060	45027540	20647830	44891180	44393680	44321280	18072110	32953340	42307110	35124560	15991530	39598780	29825520	37642650	15057710	32272400	34122450	36092020	17128850

Supplementary Table 2 - Part 3 - RBC storage metabolomics with 9 Min C18 gradient method

	Day 2_A	Day 2_B	Day 2_C	Day 2_D	Day 7_A	Day 7_B	Day 7_C	Day 7_D	Day 14_A	Day 14_B	Day 14_C	Day 14_D	Day 21_A	Day 21_B	Day 21_C	Day 21_D	Day 28_A	Day 28_B	Day 28_C	Day 28_D	Day 35_A	Day 35_B	Day 35_C	Day 35_D	Day 42_A	Day 42_B	Day 42_C	Day 42_D
	Day 2	Day 2	Day 2	Day 2	Day 7	Day 7	Day 7	Day 7	Day 14	Day 14	Day 14	Day 14	Day 21	Day 21	Day 21	Day 21	Day 28	Day 28	Day 28	Day 28	Day 35	Day 35	Day 35	Day 35	Day 42	Day 42	Day 42	Day 42
Alanine	13366520	17848860	19681830	14577520	23777340	19735670	14164860	24797980	21918460	19168590	18318900	19391280	19943560	18243320	17348030	17193350	24586770	23470580	19110170	17572690	27378700	21105950	19449380	19178660	27038060	25376440	17295660	19294420
Arginine	131944.7	142085	214123.2	1144379	80719.59	140980.1	124229.9	465518.7	49647.25	141032.7	225549.6	410466.4	74813.93	138977	72618.49	324007.7	229854.2	338282.5	263344.4	559365.3	156980	204705.1	339409.3	417390.8	128698	261220.6	220462.1	367615.1
Asparagine	1337940	1370484	1183213	1349852	1546118	1342783	1134373	1591874	1243251	1617368	872319.3	1410832	1205807	1161159	961123.5	1375498	1462175	1517208	1044946	1387459	1585195	1415191	942570.8	1479792	1472907	1176259	805835.2	1359423
Aspartate	3992620	2606829	3573992	4176942	4359134	3956260	3135027	4014609	4703010	4838048	2657125	4311813	4936368	3981795	2307089	3965942	5429332	4054690	3013248	3541213	4152635	4353696	2550933	3889039	4811734	3973413	2063696	3110478
Cysteine	33738.43	16687.39	44115.75	24403.68	49186.11	42162.73	26505.81	28985.29	26545.4	26238.67	33902.97	44811.86	29373.56	29428.07	23839.22	31231.39	27671.19	35457.74	33140.75	28190.51	41574	26825.13	30022.12	31034.54	29282.68	43304.16	41896.65	38284.71
Glutamate	9180015	11045760	8190324	9322763	8629873	5971938	7148112	10914310	7043854	6435902	6382080	8317738	7278786	6235642	9349651	8281986	5986782	5098834	5551710	7663654	6688906	5319124	6208552	8456360	5272212	5741894	7317354	7325928
Glutamine	13002360	16976540	14399260	16298660	11742680	13038800	10244820	12633080	8780987	11084100	7591624	11827790	5798990	9814047	4902122	11090550	7125156	6340734	5810442	7391430	4191154	6635574	4269320	7386386	4588554	5271184	3525911	5557814
Glycine	4906276	6350394	6515948	7384182	5400864	6383106	5728694	5409773	5589584	8929596	6162586	5923544	7006360	7178402	7473072	6976230	6723828	6620854	7746178	5758438	6444128	8530550	6871790	10391480	7046754	7775058	7482878	8067486
Histidine	4813630	6080766	5303042	5783346	5577342	5572274	5058686	6007608	5772700	5821996	4749742	6012178	4928748	5844478	4845696	5769502	5715354	5052180	4498590	4995142	4792994	5834354	4678434	6928610	5921594	6272068	5010560	5843804
Isoleucine	25339560	25408260	26840220	46641680	35053750	31314780	20597730	53571940	25810780	36522060	18913450	63896680	20595150	26834940	19618870	52418700	25812050	36276920	24104750	45203570	32418490	34812020	23984310	58412280	32401270	44973000	20257250	54949420
Leucine	88088020	1.15E+08	73055430	1.75E+08	94876070	1.02E+08	68123430	1.86E+08	1.07E+08	1.09E+08	75814520	1.58E+08	95239330	1.1E+08	72166520	1.68E+08	1.13E+08	1.17E+08	78932250	1.86E+08	1.03E+08	1.15E+08	85852170	2E+08	1.07E+08	1.06E+08	69324420	1.8E+08
Lysine	14574020	16683610	19111200	14246360	19383180	16465740	18748280	18945300	19006440	18297790	17532790	15815000	16627700	16962880	16355700	15788530	19817100	17215670	18763400	15235240	17530870	17413560	17712150	18269700	21513860	17438910	16462320	14962060
Methionine	5326372	8358428	4190629	21174760	4930214	6380800	2068244	19264180	2859228	4688012	1092900	17705670	741785.6	2273282	566227.1	15588600	1026634	1502757	848559	15884120	590600.8	992883.6	1553726	15825660	347436.4	665289.6	805906.4	12300040
Phenylalanine	13099090	22024890	11505700	19454930	14937500	19705920	11534600	19872880	18854490	21266460	14922850	18326600	18048020	25790380	17292530	24009760	25312590	21987310	16386930	30999040	18878340	23669550	18965010	31531190	18478280	15668630	18869950	27273950
Proline	1.04E+08	2.32E+08	1.32E+08	1.94E+08	1.24E+08	1.83E+08	1.23E+08	2.26E+08	1.18E+08	2.29E+08	1.31E+08	2.03E+08	1.17E+08	2.08E+08	1.22E+08	2.27E+08	1.4E+08	2.42E+08	1.31E+08	2.27E+08	1.42E+08	2.43E+08	1.39E+08	2.3E+08	1.5E+08	2.47E+08	1.28E+08	2.34E+08
Serine	878734.9	920084.7	1141304	1094547	1130747	1034070	1074073	1361395	1019134	1466028	863239.8	1509928	1065492	921971.5	1118809	1225484	1453976	1429026	1526530	1514086	1316817	1493937	1265919	1389221	1445503	1489875	1334511	1860690
Threonine	3404365	4072886	3008255	5412478	3843145	3469483	2487762	6063310	3385653	4058522	3200713	5364196	3681627	4359200	3254491	6422582	3975675	3724319	2838922	4905028	4373296	3456723	3792329	5790822	4122718	4030104	3744965	5473248
Tryptophan	17038470	15429020	20756570	20011850	27443870	17233100	19237220	32566490	25201220	24157540	17055540	35217660	20549610	19158900	18351630	27258610	24742970	19412980	22608350	25260850	29414970	23719750	22730010	34633760	28711610	22550250	21492470	30154700
Tyrosine	37632060	33076420	26420240	70757900	46866980	33935920	26508300	74323130	52572340	35518840	29629360	67285240	45070120	37328540	27391060	66421650	53439250	35384040	30155960	73784710	44033220	36274240	29668990	81196500	48821600	28255050	24768900	71909630
Valine	1.23E+08	1.4E+08	1.6E+08	1.91E+08	1.43E+08	1.41E+08	1.48E+08	2.22E+08	1.42E+08	1.58E+08	1.85E+08	1.82E+08	1.23E+08	1.46E+08	1.75E+08	1.81E+08	1.47E+08	1.56E+08	1.61E+08	1.91E+08	1.5E+08	1.46E+08	1.59E+08	2.07E+08	1.4E+08	1.4E+08	1.48E+08	1.89E+08
Hypoxanthine	2589693	255060.4	324880.9	244738.2	405873.9	297186.7	2140455	274320	20120330	23026920	43583840	34023300	42796040	52110730	1.06E+08	91623940	1.28E+08	1.28E+08	1.96E+08	1.25E+08	2.28E+08	2.05E+08	2.14E+08	2.3E+08	3.37E+08	3.87E+08	3.02E+08	3E+08
Adenine	6.65E+08	1.14E+09	8.85E+08	1.12E+09	2.8E+08	5.11E+08	5.46E+08	8.04E+08	4070337	2.32E+08	3.13E+08	4.65E+08	3379629	1.41E+08	2.71E+08	3.74E+08	3784885	49146300	1.88E+08	3.37E+08	3870975	4012173	1.78E+08	2.77E+08	3471637	2310328	1.18E+08	1.88E+08
Nicotinamide	66457180	64092420	1.14E+08	53263630	95221690	82372180	85951760	74633950	70771600	95723620	83883670	81098760	56019650	67144980	79274430	71233560	82539760	94940010	1.14E+08	67565660	92878850	1.03E+08	89999820	82481760	1.04E+08	1.36E+08	95065540	85318440
Adenosine	299159.9	215363.1	256694.2	229130.7	361452.1	318482.2	314064.3	241358.5	473203.7	304794.5	329513	276307.3	368131.1	386505.2	348837.4	267191.8	567901.1	399132.6	350409.5	363513.7	458682.5	421991	472404.8	233155.1	436335.6	385740.1	432520.3	303912.7
Orthophosphate	37727640	37758080	41252080	41935890	41598690	42552320	41127710	43694030	43332610	44953650	36977760	46754050	41392870	41274740	40874930	45452340	37158080	34616680	35268690	41129440	41824670	35224620	36758100	44389960	38013010	35551490	34781400	46275920
Diphosphate	7253408	7265790	7301976	8184928	7551154	7913640	7283342	7255270	7482794	8856003	6574042	9569977	7469514	7578780	6892414	9920259	5961002	5246012	5289200	7641416	6526070	5084442	5641338	7855338	5625426	4555663	5498436	8229952
D-Glucose	3390226	4092940	3081687	3349981	3904110	3600693	3140520	3726280	3919156	4454594	2687963	3336866	3317463	3750016	3209883	3418246	3644547	3352324	3332408	3193614	2924473	3417703	2864397	3273036	2927645	2867409	2752404	2721954
D-Glucose 6-phosphate	2042734	950646.4	735332.8	1675076	1504307	1321855	584117.3	1193480	1871548	1192210	1385483	1694026	810255.7	1583398	733076.8	1543102	1602870	1132342	1090550	1259234	1077810	918232.7	1038628	1404066	1366540	1114967	966803.5	1340700
D-Fructose 1-6-bisphosphate	235277.1	664310.3	199148.8	616804.8	278840	140894.6	104308.6	426415.9	115017	92438.31	54398.27	86721.63	143188.5	56614.71	125638.3	56698.4	31599.87	21650.27	26995.48	24941.32	83490.16	20339.65	34027.34	21606.61	24441.52	30246.73	25587.46	29436.8
D-Glyceraldehyde 3-phosphat	76469.6	230053.4	56599.26	91541.09	70042.72	84893.76	85437.78	71109.5	84875.19	129401.6	93832.48	71269.73	130034.4	90460.32	94348.62	72781.78	100854.6	56659.38	76882.56	86462.16	181198.1	68628.03	67700.37	83684.5	96099.84	85618.98	88377.88	85199.46
2-3-Bisphosphoglycerate	81122.7	135120.1	146440.4	308793.3	119002	90451.52	97186.6	126581.9	65658.83	144170.1	94502.79	147841.2	72495.48	58565.69	160467.4	58937.7	113683.9	63185.98	74577.05	50674.46	107295	34323.53	71291.94	88208.25	67843.69	47161.05	106540.2	57387.83
2/ 3-Phospho-D-glycerate	653398.2	1139297	695146.4	2210082	734107.2	619320.2	532430.8	1615838	236282.5	372412	132609.4	375719.9	264219.2	233970.5	427786.2	274511.6	119910.4	194180.3	121740.8	158248.2	248900.9	216596.8	216770.8	358680.5	237305	218043.6	197998.6	279987.4
Phosphoenolpyruvate	13372.65	136122.4	28776.1	247305.5	19790.96	34662.84	28206.58	172307	12428.28	38707.84	12378.91	17705.93	18515.76	19692.83	51634.22	33092.22	21522.78	13057.57	8854.907	17014.39	24189.9	19634.4	8969.64	29540.19	28590.01	6147.478	8424.265	20321.45
Pyruvate	20952050	21058550	27753530	23417180	23631400	21211670	16577790	25558770	8247836	11072000	6041132	12513300	5848688	8774202	5751690	9396705	7008908	9075683	7031424	7072704	10917640	9621173	9572795	11425830	11653210	11809820	9169532	10983270
Lactate	31590740	42969950	40634950	32275700	60980910	64970900	58902680	69051950	90349400	1.01E+08	74643910	83512150	97180580	1.21E+08	1.05E+08	96466010	1.28E+08	1.65E+08	1.08E+08	1.11E+08	1.58E+08	1.23E+08	1.37E+08	1.43E+08	1.64E+08	1.6E+08	1.3E+08	1.22E+08
Citrate	1.98E+08	2.54E+08	2.07E+08	3.62E+08	2.39E+08	1.98E+08	2.04E+08	2.65E+08	1.76E+08	1.93E+08	1.96E+08	2.12E+08	1.82E+08	1.72E+08	2.03E+08	1.57E+08	1.05E+08	1.97E+08	1.51E+08	1.69E+08	2.12E+08	86304640	1.69E+08	1.95E+08	1.36E+08	1.16E+08	1.6E+08	2.03E+08
alpha-Ketoglutarate	357182.9	576492.8	587944.2	418302.2	469960.1	424352.4	527291.1	642704.2	414409.5	410649.4	438091	451736.3	298162.1	373351.8	364719	378226.7	298106	255631	403634.2	350782.6	292337	277304.7	301134.9	430955.4	288991.9	308602.3	305636.3	373601.7
Fumarate	759793.8	1964006	924742.3	790153.6	1114115	1046278	889207.2	1027904	1124417	1300729	800471.5	1066873	971566.3	1307272	1173206	1401034	921065.7	1368418	1277922	1412588	1155927	1260938	1000384	1596218	856898.8	1398133	1050167	1464853
Malate	10830550	29415910	13209910	12046970	16979410	16506980	13426610	15544320	17111360	21620080	13224820	17053280	14280650	22080070	18518410	21585710	14585840	22019760	19855130	23347650	18604470	20293460	15503940	25107190	14041000	22098700	17046500	22395830
Sedoheptulose 1-phosphate	631279.2	383765.9	353963.7	1207836	444437.1	350308.6	360792.9	272811	555584.8	603282.6	625486.6	908499.5	558263.2	372874.3	518781	860216.7	747684.4	446765.2	585128.8	684513.6	564809.8	274782.6	659186.9	1078306	532068.6	632838.6	603521.7	944200.3
alpha-D-Ribose 1-phosphate	480996.5	714801.7	778112.2	641153.2	526149.8	588590.4	646440.2	690968.2	490605.5	635561.9	562571.2	515135.7	451828.8	489943.7	451709.5	496532.2	392753	386532.7	453628.1	470761	350865.1	393033.2	378871.1	578636.5	331609.2	394198.3	365143.8	457717.5
Glutathione	1.83E+08	7533394	42602220	1.59E+08	1.31E+08	77231860	46882560	1.88E+08	1.59E+08	191771.5	56006480	62747680	1.52E+08	85262620	54567060	50913600	1.13E+08	53517950	44468440	54427950	88230520	57253360	202217.8	61354740	82128230	34205290	39462600	49361380
Glutathione disulfide	43151530	79836710	49158600	48862150	58209570	59128210	56341930	69122220	51001320	52327810	42340320	40501140	22550630	44429430	41139920	32691940	23295970	25123230	23103170	25930850	21442930	14996070	25158310	30574500	16889700	10328140	16376430	23156970
5-Oxoproline	20528290	27545430	26296000	22154310	35628500	35622880	31852280	36208140	60610960	66055440	59974750	43881080	71139580	82584460	79031230	58359830	95155040	91612200	92092060	81608060	93631620	1.02E+08	99712810	92088410	1.09E+08	82205140	93988920	95647330
S-Glutathionyl-L-cysteine	14444.89	211423.7	91995.54	114854.9	76169.34	156334	147780.6	95252.35	203762.6	539458	268007.9	298144.4	329069.6	614305.4	575831.1	305480.1	256345	378336.2	293682.6	332558.8	374208.5	244786.2	1124629	495193.8	243274.2	249288.4	540490.2	301375.7
Urate	6689642	8064742	6924328	4857972	6383464	6638120	7630598	6535820	9086973	7673254	8365362	3238554	8568673	9910586	8943009	2743540	6512576	7051652	6286796	2748235	4678563	5598016	6794574	3154001	5375932	3481297	6251300	2511765

Supplementary Table 2 - Part 4 - RBC storage metabolomics with 15 Min HILIC gradient method

	Day 2_A	Day 2_B	Day 2_C	Day 2_D	Day 7_A	Day 7_B	Day 7_C	Day 7_D	Day 14_A	Day 14_B	Day 14_C	Day 14_D	Day 21_A	Day 21_B	Day 21_C	Day 21_D	Day 28_A	Day 28_B	Day 28_C	Day 28_D	Day 35_A	Day 35_B	Day 35_C	Day 35_D	Day 42_A	Day 42_B	Day 42_C	Day 42_D
	Day 2	Day 2	Day 2	Day 2	Day 7	Day 7	Day 7	Day 7	Day 14	Day 14	Day 14	Day 14	Day 21	Day 21	Day 21	Day 21	Day 28	Day 28	Day 28	Day 28	Day 35	Day 35	Day 35	Day 35	Day 42	Day 42	Day 42	Day 42
Alanine	122639.1	263521.4	311299.8	336878	170643.8	160208.8	121685	214146.7	174658.9	494367.5	194306.1	117993.4	215902.1	253416.1	286881.2	212301.1	155230.9	137074.5	191369.7	108980.4	158104.1	190598.3	135174.1	800105	147028.6	132393.8	202355.6	192052.3
Arginine	26998.91	59292.09	100320.1	402485.7	13632.94	43178.78	22305.72	150796.7	14416.44	126417.8	57395.28	90760.91	30263.41	62237	48585.48	148565	53794.75	87682.6	83973.21	93473.28	42458.07	75457.49	76669.64	771378.2	37803.78	81992.57	64915.24	132943.8
Asparagine	34814.08	123051.3	120060.6	182195.5	53087.92	71549.46	32369.44	109630.7	56293.16	249717.4	53379.81	48688.34	82355.35	89829.91	83609.88	107790	49819.07	39828.76	43871	39351.12	42549.57	63928.36	25482.56	473272.4	44165.61	41355.96	39573.95	75419.01
Aspartate	28218.43	63757	104492.6	165519.5	43794.01	78351.59	24316.53	120647.7	58777.04	194461.8	49390.8	39655.19	92209.43	94609.06	65693.64	99544.49	58998.91	33156.43	42940.02	29271.92	47656.58	69537.8	17709.52	270118	45469.62	43711.13	30962.53	56133.65
Cysteine	4255.363	2069.11	2305.384	4399.14	1907.063	2324.851	3911.587	4817.559	3465.861	4464.064	4312.335	4168.877	3637.764	4801.077	5343.727	3378.244	2459.7	3820.872	3356.22	3574.368	3885.421	4675.231	3822.349	7833.335	5485.14	4517.565	3468.512	3809.421
Glutamate	92372.06	278006.8	332496.8	467464	121389.1	144656	97588.66	336668.2	103900.5	475736.6	158104.6	141044	190942.1	202163.8	352541.5	277502.4	93081.19	97871.2	143738.5	102169.3	123350	155052	99655.52	1115890	106234.2	113200.9	187733.7	280332.7
Glutamine	214898.4	754631.1	699646.3	1132899	258680.5	468349.7	226553.1	604164.7	243115.2	1086828	323307.5	320732.4	230245.8	490282.2	272590.3	433867.5	176422.1	185991.1	197710.2	210161.4	122162.6	253701.1	90011.41	1706592	90406.49	135309	137385.6	340974.2
Glycine	1792.199	11951.62	14184.98	23813.58	2871.614	8775.364	1370.932	13235.41	4857.806	47290.79	9414.335	4267.82	12522.56	18032.07	21664.11	20169.43	6469.635	3084.043	11324.96	4082.953	4676.17	16910.76	3507.076	90617.69	6131.6	5857.868	11439.16	19010.8
Histidine	70828.55	161320.8	212771	332403.1	123105.1	146610.3	65481.63	295303.9	105926.7	459948	102865.6	123544.7	137878.1	176093.6	164407.2	207788.2	113133.5	87790.79	116381.9	82716.2	113749.7	145197.6	71439.62	1119792	126873.9	121229.2	125957.7	202335.5
Isoleucine	62658.99	32368.61	184371.2	338530	71878.49	121231.1	49512.2	71878.49	68064.97	422626.4	75665.53	147395.1	106650.6	134121.8	120386.2	289332.3	74351.76	81768.55	100213.7	100092.5	10261.46	172339.2	55848.47	722528.8	121129.2	121129.2	85523.88	266157.4
Leucine	161610.6	519631.7	410496.2	1063591	202180.8	394600.8	152986.6	650915.2	252885.3	1114808	280231.1	327254.2	360292.2	473643.2	396611.6	707602.3	253309.5	219296	273259.5	337411.8	204147	424212.7	145637.1	2051990	254849.8	219016.5	302574.2	763515.3
Lysine	168026	410577.6	638920.9	518090.6	319044.1	363629.9	248418.7	481788.9	292439.6	1209905	351596.3	287283.8	419616.6	499305.8	560337.6	467476	292093.1	329576.9	456108	213455.1	339985.2	440121.8	280769.6	2457018	370929.4	267562.5	453027.1	521871.5
Methionine	4687.736	22202.26	12712.15	70404.7	4847.483	10721.89	2528.968	37718.72	3319.006	21591.24	2042.283	21624.84	386.2871	6145.375	864.351	33016.57	1093.942	1008.889	2275.49	12647.08	269.5683	1124.225	716.9949	97598.02	1407.497	971.9355	1407.497	27511.97
Phenylalanine	64434.35	201190.9	185667.5	312325.9	101373.8	153615.3	73592.7	272309.6	109343.2	427838.8	123343.6	142372	153383.4	236659	182993.6	329842.6	145036.8	130282.1	137658.6	138824.5	113876.3	211035	78140.74	841723.5	124321	155576.2	168900.7	308450.1
Proline	453396.8	2276656	1495697	4199108	642141.7	1550880	661905.6	2018392	848725.8	5781902	1121480	1074960	1295802	2592137	1505483	2219453	860057	1265781	1166656	1103581	826255.7	2300296	786126.6	11050660	838641.5	1313450	1299093	2720272
Serine	7051.103	33094.25	47771.36	75420.33	10418.5	23297.51	11459.39	41204.96	12749.23	81486.18	21639.63	17402.02	25428.16	33927.65	37374.71	48545.84	14346.34	11814.65	21399.24	14550.44	14663.12	28595.33	11584.78	203152.5	13292.91	18555.99	22677.73	40026.96
Threonine	18678.43	69189.54	69706.71	147337	29263.85	45952.25	20146.6	92286.4	34131.79	159027.2	40001.97	46523.44	50825.07	68579.3	64178.05	118835.6	33540.74	35562.72	41286.95	40711.76	37097.1	49827.21	23670.78	511478.9	37170.18	38186.77	37513.54	95034.48
Tryptophan	15080.48	26810.58	32401.65	46809.41	18557.99	25511.62	13418.87	43205.81	25493.88	71405.18	24526.55	20684.73	32424.05	29317.67	36676.34	38775.93	25358.34	17493.95	26853.81	21917.39	21478.15	31740.98	14858.28	128041.5	24477.07	19593.48	30003.92	42545.3
Tyrosine	5674.521	35171.46	19567.67	44607.5	8363.596	16225.5	8654.896	26162.34	9510.916	70054.86	13848.07	12936.36	18094.72	30184.99	23103.7	39342.05	9804.817	9276.388	12275.9	9932.156	10038.85	19966.25	8655.604	147800.6	7835.696	6368.145	18205.34	32569.85
Valine	3530537	9047995	13537400	12483000	3761298	6691230	3978634	6742488	3628582	25173900	7219868	4034904	5891122	7423432	11131660	8519160	3456352	3082751	6511160	2880232	3024150	6570392	3386121	24144780	3727694	3623346	5785828	7463842
Hypoxanthine	307114.8	67785.88	143689	86645.34	35196.11	76319.41	223853	80056.18	2219264	3574142	5598290	2422376	6326010	7230682	11950070	11280500	8120552	7563222	13729800	7473740	8296680	15896970	8732084	30613790	12791650	10270270	15069210	18483550
Adenine	20954550	40842080	57535440	68449160	8687345	26242950	20156250	34716720	652706.7	23909310	20341790	15798780	798155.8	7114292	18567220	28644200	540739.2	2664709	15665710	11605520	366849.5	934352.8	7285678	36497900	487829.8	396826.4	8495199	15115630
Nicotinamide	759798.1	2400675	2537326	1926538	937198.4	1899594	1327336	2258245	1472912	3022686	2312060	814114.9	1622786	3216347	2836257	1868200	1638298	1045630	1979032	1206967	1013688	1941866	1222394	3780797	1200234	980190.2	2201593	2053836
Orthophosphate	3625935	2857035	3662608	3709447	6264246	3242111	4766510	4542418	3998689	4074377	3242955	5937318	2679375	2870935	2813622	3674691	3585916	5101682	3006313	4397152	5830080	2564099	4263588	6117850	4889020	4908856	2749652	3985817
Diphosphate	464792.8	276959	411141.8	410473.9	1076207	355685.5	681888.6	610170.4	503585.7	459008.3	354564.8	960777.8	255927.3	280341.8	262873.9	423571.8	377505.9	922862.6	327079.4	604772.2	1212610	233135.6	647373.1	702015.4	684698.6	910006.2	292452.1	470927.8
D-Glucose	923106.2	1063519	929442.9	987273.7	1329992	769695.3	1242880	1224079	726012.1	1007618	791304.3	1224630	483302.2	618836.6	660323.1	764366	547344.9	1404660	698578.8	836046.2	1193428	415326.7	997421.2	1360412	605213.2	933733.2	454420.3	579410.5
D-Glucose 6-phosphate	287866.8	57363.18	35734.46	78504.52	218016.8	91652.46	51538.52	83972.6	214727.9	68149.13	104400.4	209584	27298.88	108279.7	18490.18	66217.31	141458.9	341974.5	95683.78	115676.3	246394.1	68074.2	160200.5	186877.1	200089.8	370047.8	75816.45	61728.21
D-Fructose 1-6-bisphosphate	2133.736	3028.541	878.9188	5560.84	4829.074	547.7082	530.989	3706.593	265.8742	334.3497	366.9443	649.3197	302.7666	216.7205	582.6033	241.0502	480.7805	516.4437	252.8516	461.5315	1380.601	585.6913	435.2061	736.1765	379.763	455.3374	342.1123	341.7122
D-Glyceraldehyde 3-phosphate	10221.58	8536.73	8243.632	13063.5	36094.85	5539.358	10534.27	10398.57	4999.382	3957.522	10136.64	11651.57	4570.138	4140.451	6809.521	2817.99	2725.952	24629.36	3625.906	6565.498	47050.32	14675.02	20559.64	8790.396	17634.05	11157.01	7869.029	3459.7
2/3-Phospho-D-glycerate	31790.82	60320.89	24410.77	137180	68825.51	20778.7	42743.64	152826.9	6254.365	16137.87	4109.555	29389.38	11657.53	5617.288	28745.83	6196.1	9111.11	30233.55	766.0414	9718.304	35465.52	674.1793	16366.78	11156.67	6097.394	12086.61	11187.36	4658.888
Phosphoenolpyruvate	6683.913	41562.25	6079.59	68314.7	18550.67	7284.919	13161.4	68490.54	854.6835	3158.85	431.3089	5914.055	1649.417	902.5291	9193.103	1933.137	539.137	8161.805	515.5588	2617.874	9094.356	952.613	1870.949	5840.801	704.2546	2601.437	2713.911	776.3322
Pyruvate	10021660	8289950	11465590	9642229	9986979	8923732	8312822	12200900	3976427	4922100	2437634	4837872	2287027	3128164	2152413	3260251	2943416	3533329	2817421	2691593	3566814	4415022	3242126	7440186	6203408	4404554	4151424	5076046
Lactate	20080920	26685010	29006740	17532570	45285790	44688800	45096570	58380550	63926460	75884670	53820540	64069080	60616600	67787890	70563060	63413340	80950410	1.3E+08	78033270	63352150	1.24E+08	89164120	94086530	1.71E+08	1.08E+08	1.28E+08	83035870	94603460
Citrate	2723918	2062399	2335226	2705857	4140035	1551837	3133222	2422280	1681474	1649460	1832832	3723253	1204048	1200903	1562265	1209684	1120173	4414578	1291221	1858875	6379780	568341.4	3808969	3381515	2442176	2971826	1606123	1346028
alpha-Ketoglutarate	8764.601	21399.7	12325.45	9312.267	12488.17	8240.782	12587.33	16832.3	9762.535	11459.31	8865.017	13234.15	3335.084	7041.188	12495.51	9541.137	5695.051	9591.52	6062.888	8946.944	10738.1	4971.711	11013.57	28082.43	7025.812	9169.314	9315.664	11422.41
Fumarate	126358.5	225534.3	159945	137797.3	216645	144624.3	149259.5	227324.6	155896.4	177694.5	122285.2	213326.3	117109.6	146729.4	184883	170754	142074.6	197078.9	128613.4	162331.1	253846.2	109297.3	172275.5	313565.2	185612.6	198372.2	148448.9	189223.1
Malate	1094336	2129836	1363988	1142901	1978403	1289015	1300044	2008288	1375945	1768402	1102923	1841427	958482.7	1326406	1678874	1579750	1194970	1881282	1147614	1525248	2368607	978676.2	1577113	3829658	1550581	1843804	1321853	1771013
Sedoheptulose 1-phosphate	104659	5776.694	3847.356	138941.9	135853.5	35314.38	17529.02	32029.82	103906.5	28103.8	77725.62	285577.7	15320.03	50689.73	4898.209	97775.12	106785.1	224188	93151.35	169644.5	261364.7	30116.9	242469.8	312137	141071.8	332507	86294.41	118323.7
alpha-D-Ribose 1-phosphate	914.2591	230.2098	285.6753	3992.554	1183.616	316.8452	294.8723	705.5872	384.0178	970.2228	344.651	2809.415	279.6588	298.2603	288.9596	1454.958	1482.124	2435.112	354.221	2586.592	5902.718	330.9276	1795.331	3508.059	2335.402	3472.285	338.621	1005.744
Glutathione	120558.3	7502.816	36365.73	134402.2	83050.98	51778.31	14780.19	300758.8	112258.1	11334.53	34887.64	36755.14	167918	92050.73	60496.89	46662.5	67974.07	19995.26	17353.97	16037.82	94542.84	38409.52	1995.334	201888.2	56225.69	38518.5	35386.39	28844.95
Glutathione disulfide	441800	1543404	1746481	1556715	870026.8	896394.1	624807.7	1463088	583822.9	1273139	658627.2	645390.3	567843.3	695514.8	954089.6	739354.8	255219.6	303994.9	269062.8	217413.2	394009.2	207492.8	99614.29	1500302	197078.5	247340.9	292818.7	459079.8
5-Oxoproline	203419.2	616281.7	599753.7	896361.6	267108	401468.3	210690.9	505764.2	224331.5	862787.9	275233.1	329762.8	194488.8	399766	228495.7	406170.8	166117.8	195654.2	184592.5	191992.9	133247.1	212521.1	92353.7	1294503	87001.5	136758.3	125654.5	282987.3
S-Glutathionyl-L-cysteine	237.4647	37478.71	6603.889	5128.722	1746.738	6665.67	8734.43	2908.965	6927.947	151885.1	22838.26	10268.81	18602.06	44809.45	65655.34	29984.53	6959.369	18308.28	28834.53	14288.3	20859.78	22571.79	97791.66	131129	14062.82	27840.08	42253.52	43314.62
Urate	2142.086	2392.234	4788.192	8559.985	578.9581	2669.345	1008.737	365.3694	391.2856	5862.675	2138.378	478.3096	520.222	268.0701	296.8517	818.473	901.3062	424.8102	1127.621	1199.021	953.9962	1210	589.8953	1318.097	354	249.5	184.8181	376